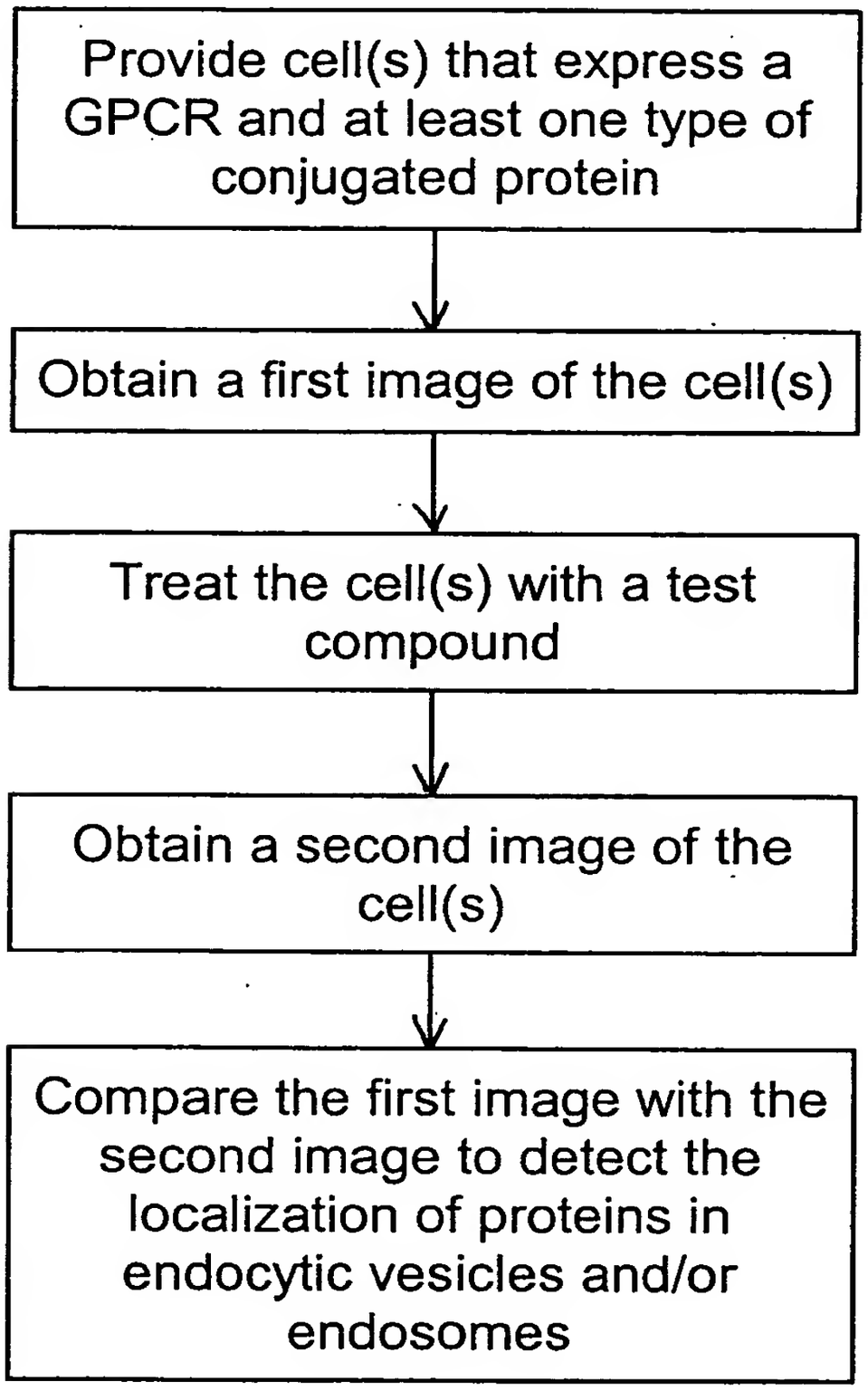
Provide cell(s) that express a GPCR and at least one type of conjugated protein
Obtain a first image of the cell(s)
Treat the cell(s) with a test compound
Obtain a second image of the cell(s)
Compare the first image with the second image to detect the localization of proteins in endocytic vesicles and/or endosomes

Fig. 1

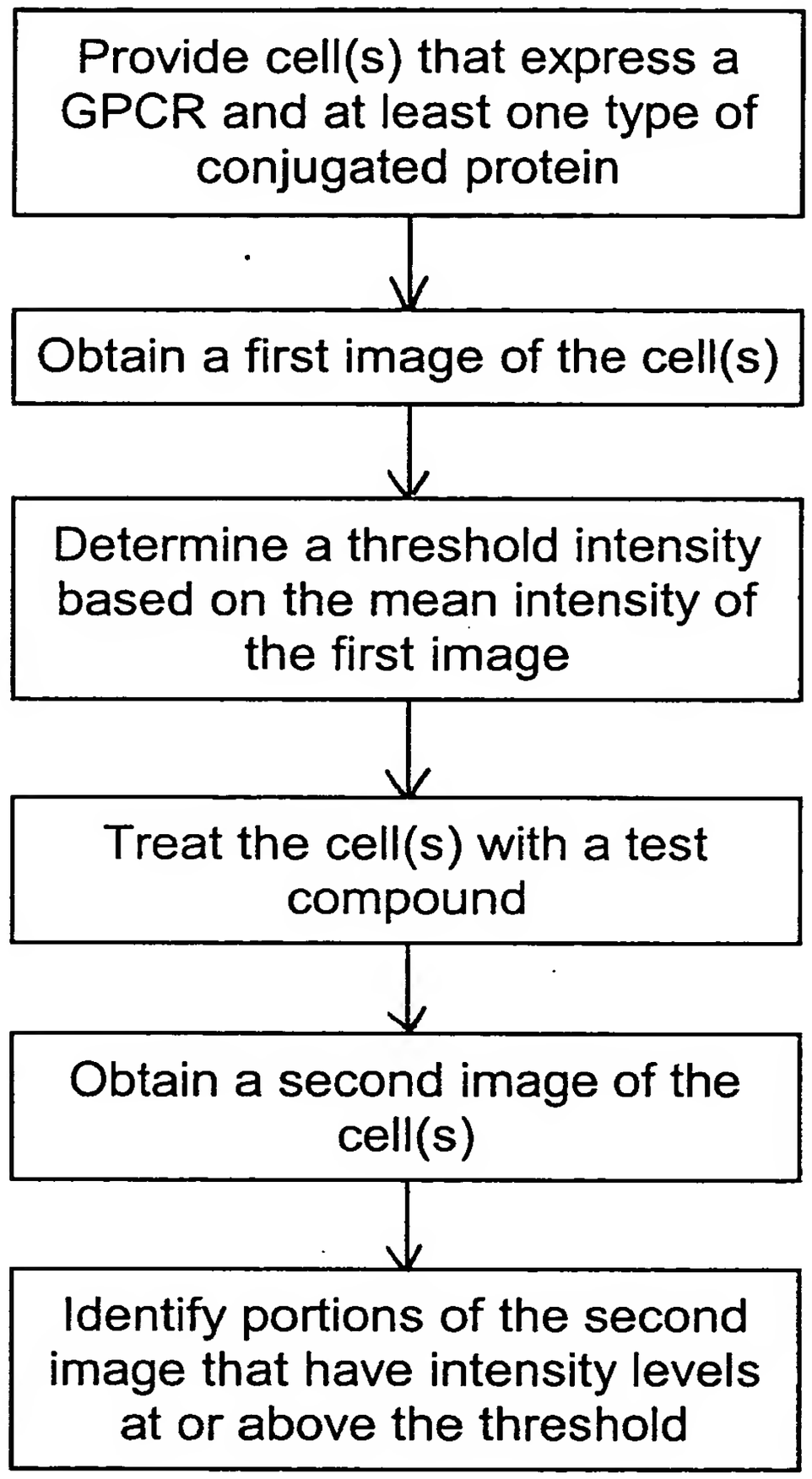
Provide cell(s) that express a GPCR and at least one type of conjugated protein
Obtain a first image of the cell(s)
Determine a threshold intensity based on the mean intensity of the first image
Treat the cell(s) with a test compound
Obtain a second image of the cell(s)
Identify portions of the second image that have intensity levels at or above the threshold

Fig. 2

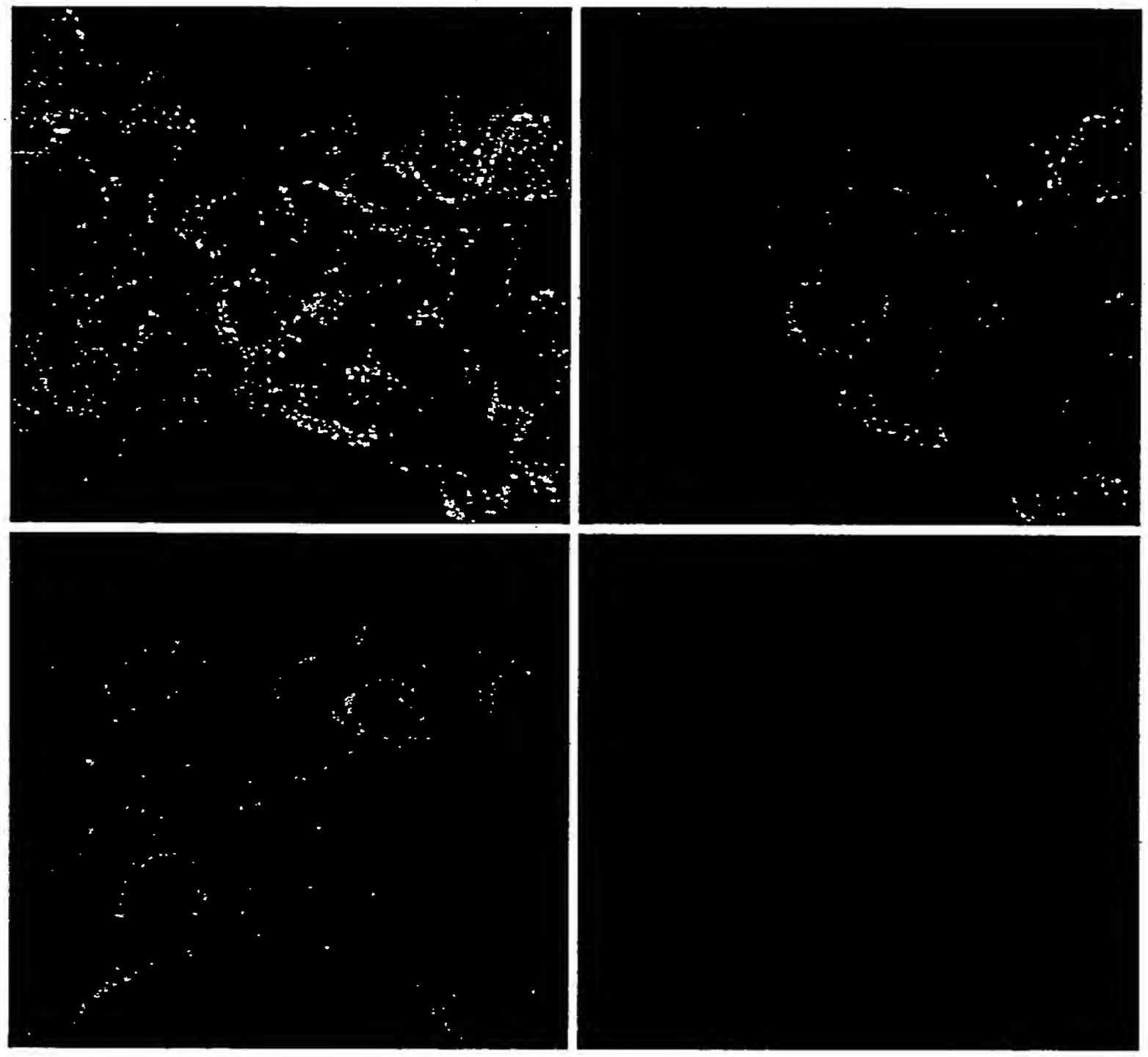

FIG. 3(a)

FIG. 3(b)

FIG. 4(a)

FIG. 4(b)

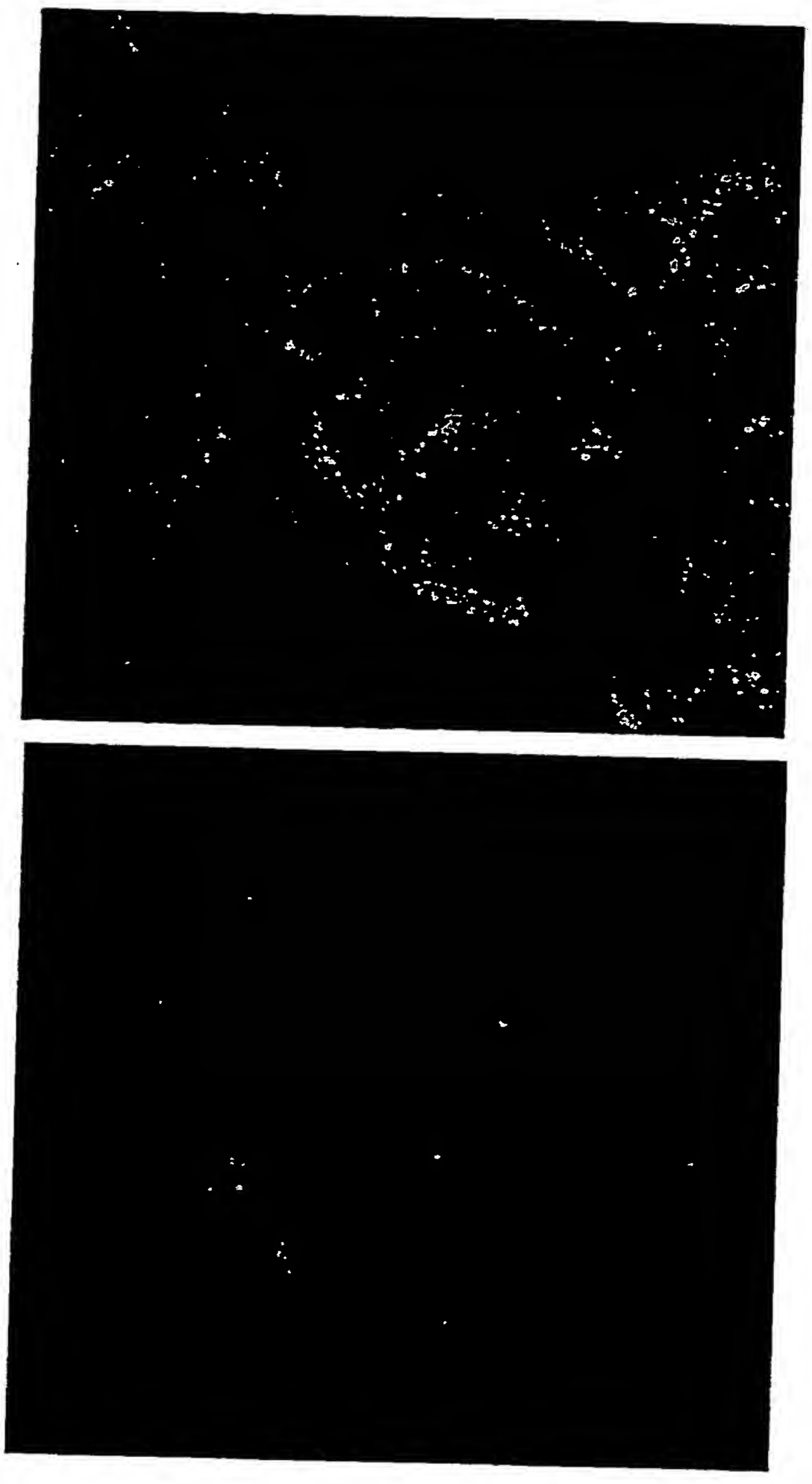

FIG. 5(b)

FIG. 5(a)

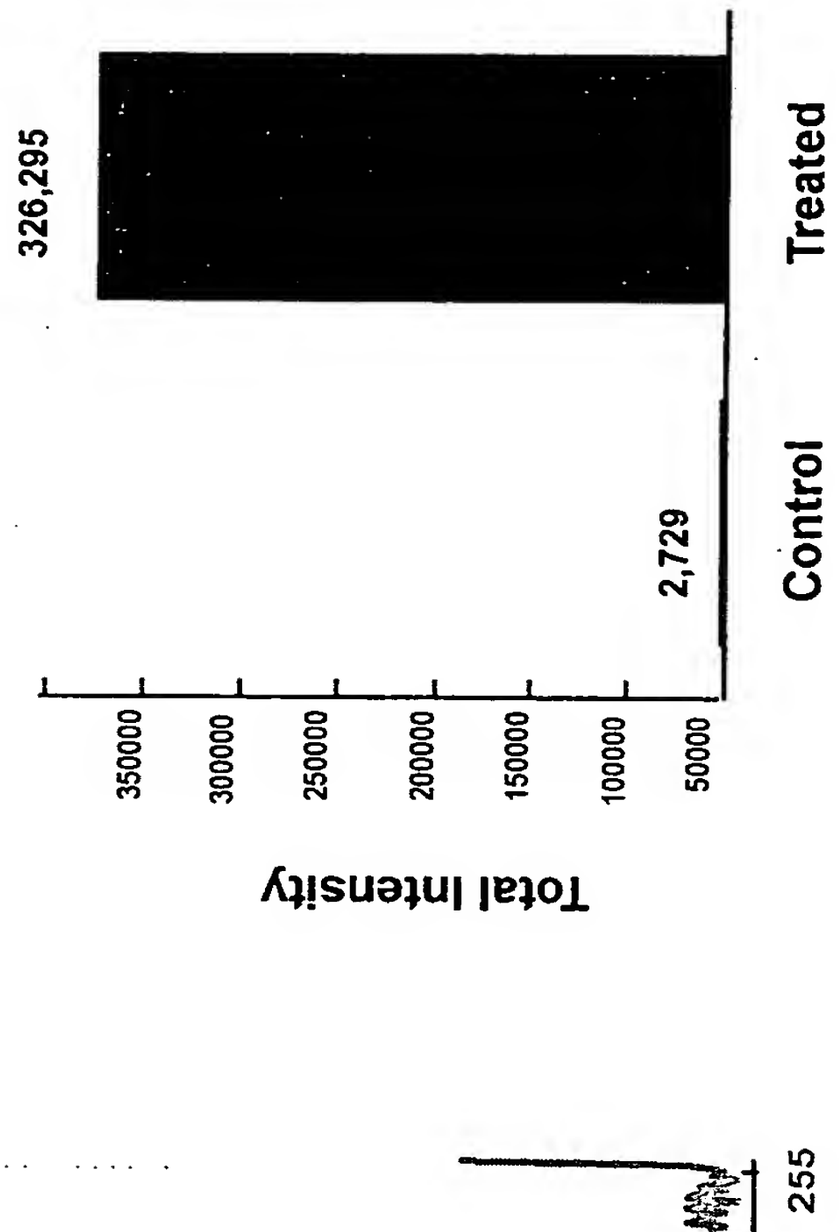
326,295
Treated
2,729
Control
350000
300000
250000
200000
150000
100000
50000
Total Intensity

FIG. 7

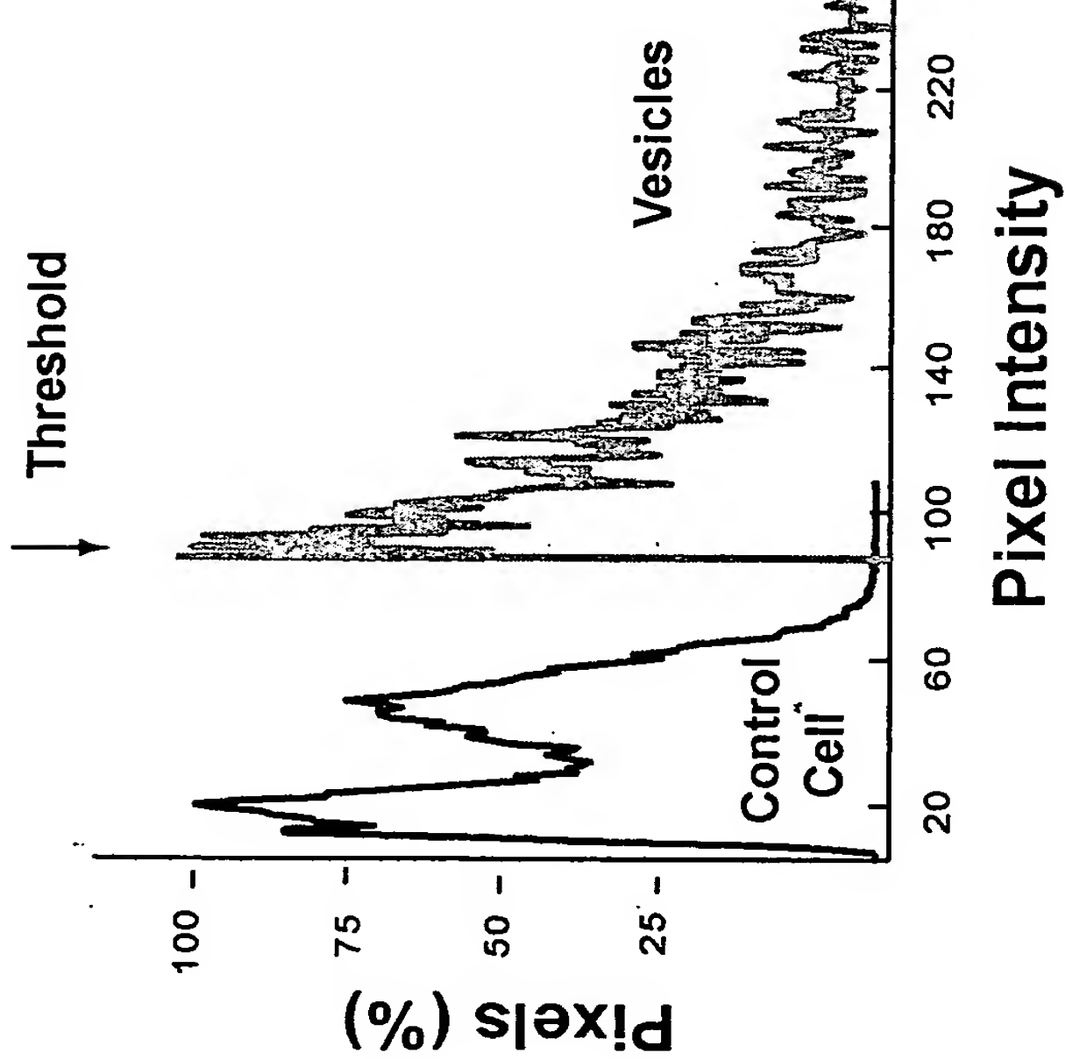
Threshold
Vesicles
Control Cell
100
75
50
25
Pixels (%)
20
60
100
140
180
220
255
Pixel Intensity

FIG. 6